

Date: Wed, 6 Apr 94 04:30:47 PDT  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V94 #88  
To: Ham-Homebrew

Ham-Homebrew Digest                      Wed, 6 Apr 94                      Volume 94 : Issue    88

Today's Topics:

    2 meter transverter for HR 2600?? (2 msgs)  
        PIN diodes cause IMD in front end?  
        QRP-linear for HW-7?  
        radiokit

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Sun, 3 Apr 1994 02:24:56 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!pipex!sunic!psinnntp!psinnntp!  
arrrl.org!zlau@network.ucsd.edu  
Subject: 2 meter transverter for HR 2600??  
To: ham-homebrew@ucsd.edu

JimN0OCT (jimn0oct@aol.com) wrote:

: I've just purchased a used HR-2600 10 meter rig. I would like to use  
: transverters to get on 2m all-mode. The man who sold it to me said there was  
: an article in either 73 or QST that described this, but I can't find it. Any  
: help?? Thanks alot!

There was one in 73 a few years ago but I wouldn't recommend you build  
it.

The ARRL Handbook has a 2M transverter for several years. I've heard  
rumors that the Packrats are working on an improved one--probably with  
better transmit IMD, but it may be a while before this design is  
available. (Packrats--W3CCX is the club call)

There hasn't been one in QST recently, though I've considered adapting the "no-tune" 222 MHz transverter I recently published in QEX for 2 meters. Unfortunately, it looks like I'll be busy this year attending VHF and microwave conferences, so I don't know when I'll get to it. Come to think of it, I really ought to be working on my presentation on 5760 MHz preamps for the West Coast VHF conference at the end of the month...

--

Zack Lau KH6CP/1                    2 way QRP WAS  
                                     8 States on 10 GHz  
Internet: zlau@arrl.org    10 grids on 2304 MHz

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Date: 6 Apr 94 09:11:04 GMT  
From: agate!howland.reston.ans.net!gatech!wa4mei!ke4zv!gary@ucbvax.berkeley.edu  
Subject: 2 meter transverter for HR 2600??  
To: ham-homebrew@ucsd.edu

In article <1994Apr3.022456.11057@arrl.org> zlau@arrl.org (Zack Lau (KH6CP)) writes:

>JimN00CT (jimn0oct@aol.com) wrote:

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>: transverters to get on 2m all-mode. The man who sold it to me said there was  
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>: help?? Thanks alot!

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>rumors that the Packrats are working on an improved one--probably with  
>better transmit IMD, but it may be a while before this design is  
>available. (Packrats--W3CCX is the club call)

The most robust easily duplicated design currently in print is the Suffolk design in the RSGB book The VHF/UHF Dx Book. Chapter 8 includes a good discussion of why certain tradeoffs are made in transverter design.

Gary

--

Gary Coffman KE4ZV		You make it,	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.	uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!	emory!kd4nc!ke4zv!gary

Lawrenceville, GA 30244

-----  
Date: 6 Apr 1994 02:16:33 GMT  
From: koriel!newsworthy.West.Sun.COM!abyss.West.Sun.COM!spot!myers@ames.arpa  
Subject: PIN diodes cause IMD in front end?  
To: ham-homebrew@ucsd.edu

In article E2G@SSD.intel.com, rlt@ssd.intel.com (Roger Traylor) writes:

>  
>I am building a front end for a multiband receiver. It will  
>consist of two poles of bandpass filtering followed by a grounded  
>gate JFET amp, followed by another two poles of filtering.  
>  
>My question is: if PIN diodes are used to switch between different sets  
>of bandpass filters will they cause increased IMD at typical (not  
>pathological) signal levels?

PIN diodes, as I understand it, can introduce some IMD. However, in normal application, this is miniscule. For any frequency that a PIN can be used as a switch, it cannot be used as a mixer. This is because a mixer diode works by rapidly switching on and off, where a PIN diode is designed to switch very slowly, slowly enough that an RF signal can not turn it on and off.

In short, I think the answer to your question is no.

---  
\* Dana H. Myers KK6JQ, DoD 466 | Views expressed here are  
\*  
\* (310) 348-6043 | mine and do not necessarily \*  
\* Dana.Myers@West.Sun.Com | reflect those of my employer  
\*  
\* This Extra supports the abolition of the 13 and 20 WPM tests \*

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Date: 5 Apr 94 21:51:40 GMT  
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!psgrain!news.tek.com!  
gvgpsa.gvg.tek.com!gold.gvg.tek.com!gold!cleveland@network.ucsd.edu  
Subject: QRP-linear for HW-7?  
To: ham-homebrew@ucsd.edu

In Article <2njrjm\$lsj@search01.news.aol.com>, jimn0oct@aol.com (JimN0OCT) wrote:

> >Has anyone built a small broadband amplifier to go with HW-7?

There was an article entitled "Slippers for the HW-7" published in

QST manu years ago. Perhaps someone could supply a copy.

\*\*\*\*\*  
\* Grover Cleveland WT6P@KE6LW.#NOCAL.CA \*  
\* Instructional Designer v(916) 478-3153 \*  
\* The Grass Valley Group Inc. - A Tektronix Company f(916) 478-3831 \*  
\* Grass Valley, California DoD 7388 \*  
\*\*\*\*\*

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Date: 5 Apr 94 19:28:58 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: radiokit  
To: ham-homebrew@ucsd.edu

ADDRESS: RADIOKIT  
P. O. BOX 973  
PELHAM, N. H. 03076  
  
TELE # 603-635-2235  
FAX 603-635-2943

HOPE THIS HELPS YOU ... THIS INFO IS ABOUT 6 MONTHS OLD..

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End of Ham-Homebrew Digest V94 #88  
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